

Area, Perimeter, Circumference

Word Problems Practice: Decide what the questions is asking – highlight important information. Write the formula you will use, substitute numbers and solve. Don't forget your units!

*round to the nearest tenth if needed

1. Jose wants new carpeting for his living room. His living room is an 8 m by 8 m rectangle. How much carpeting does he need to buy to cover his entire living room?

2. Joe has a rectangular herb garden that is 8 ft long and 10 ft wide. What length of fencing does he need to fence in his entire garden?

3. Kai designed a circular pool with a diameter of 25 m. What is the area of the bottom of the pool?

4. Mrs. Piper would like to make a table cloth for her picnic table. If the table has a length of 6.5 feet and a width of 4.5 feet, how much cloth does she need to buy?

5. What is the area of the top of a round pizza that has a radius of 8 inches?

6. **GEOGRAPHY** The shape of Idaho is roughly triangular with a base of 380 miles and a height of 500 miles. Find the approximate area of Idaho.



Surface Area & Volume

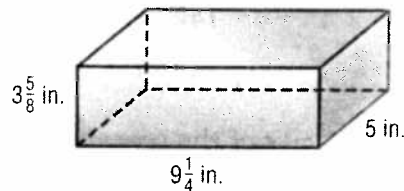
* write the appropriate formula, substitute the numbers, THEN solve w/ your calculator. Don't forget units.

1. **OLYMPICS** Olympic gold medal winner Michael Phelps competes in a pool with required dimensions 25 meters by 50 meters by 2 meters. What is the volume of the Olympic-sized pool? Explain how you found your answer.

2. **DUMP TRUCKS** Raphael drives a standard-sized dump truck. The dimensions of the bed of the truck are length 15 feet, width 8 feet, and height 6 feet. What is the volume of the bed of the dump truck?

3. **GIFTS** Fatima is wrapping a gift box for her nephew's birthday. The box's dimensions are 16 inches long by 10 inches wide by 5 inches high. What is the surface area of the box?

4. **JEWELRY** Janine keeps her jewelry in a jewelry box like the figure below. Find the volume of Janine's jewelry box.



5. **PAINTING** Cody is painting the front door of his house. The dimensions of the door are 80 inches by 36 inches by 2 inches. If he paints all of the surfaces, how much area will he paint? Explain.

6. **CARPENTRY** Bryan is sanding a set of speaker boxes that he built for his room. What is the surface area of each box?

